



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 10/500173

**TO:** Patrick S Riggins  
**Location:** REM-2D60&2C70  
**Art Unit:** 1633  
**Monday, April 10, 2006**  
**Case Serial Number:** 10/500173

**From:** Toby Port  
**Location:** Biotech-Chem Library  
REM-1A59  
**Phone:** 571-272-2523  
**[toby.port@uspto.gov](mailto:toby.port@uspto.gov)**

### Search Notes

Examiner Riggins,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port  
X22523

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on:

April 9, 2006, 02:10:27 ; Search time 344.814 Seconds  
(without alignments)  
6758.955 Million cell updates/sec

Title: US-10-500-173-1  
Perfect score: 41  
Sequence: 1 gaaacaatgacacataatcgcc.....ccccataccaaaggccgtac 41

Scoring table: IDENTITY\_NTIC  
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:  
1: gb\_ba:/\*  
2: gb\_in:/\*  
3: gb\_env:/\*  
4: gb\_cm:/\*  
5: gb\_ov:/\*  
6: gb\_pat:/\*  
7: gb\_ph:/\*  
8: gb\_dx:/\*  
9: gb\_ro:/\*  
10: gb\_sts:/\*  
11: gb\_by:/\*  
12: gb\_un:/\*  
13: gb\_vl:/\*  
14: gb\_itg:/\*  
15: gb\_pl:/\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	41	100.0	41	6	BD181246		BD181246 Cell spec
2	41	100.0	41	6	BD182147		BD182147 Cell spec
3	41	100.0	260	6	BD181247		BD181247 Cell spec
4	41	100.0	260	6	BD182148		BD182148 Cell spec
C 5	41	100.0	334	8	HSJ12H4R		HSJ12H4R
6	41	100.0	333	6	BD181248		BD181248 Cell spec
7	41	100.0	333	6	BD182149		BD182149 Cell spec
8	41	100.0	1221	8	D85611-		D85611 Human smooth
9	41	100.0	142645	8	AC008481		AC008481 Homo sapi
10	41	100.0	178488	14	AC151856		AC151856 Papiro ham
11	41	100.0	224264	14	AC151861		AC151861 Colibus g
C 12	39.4	96.1	163264	14	AC151891		AC151891 Aotus nan
13	39.4	96.1	18174	14	AC151893		AC151893 Callicebri
14	39.4	96.1	186803	14	AC151868		AC151868 Bos tauru
C 15	39.4	96.1	19952	14	AC163457		AC163457 Saimiri b
16	39.4	96.1	250810	14	AC151886		AC151886 Lemur cat
17	37.8	92.2	236017	14	AC150437		AC150437 Rattus no
18	36.2	88.3	485	9	AF123268		

RESULT 1  
BD:81246

LOCUS BD181246  
DEFINITION Cell specific express replication vector.  
ACCESSION BD181246

VERSION BD181246.1  
KEYWORDS GI:30792164

SOURCE AC048384

ORGANISM AC148218

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butaleostomi;

Mammalia; Butheria; Euarchontoglires; Primates; Catarrhini;

Hominoidea; Homo.

REFERENCE 1 (bases 1 to 41)

AUTHORS Takahashi, K., Yamamura, H. and Miyatake, S.  
TITLE Cell specific express replication vector.  
JOURNAL Patent: JP 2002335965-A 1 26-NOV-2002;  
JAPAN SCIENCE AND TECHNOLOGY CORP  
COMMENT OS JP 2002335965-A/1  
PN 26-NOV-2002  
PD 26-NOV-2002

PP 14-MAY-2001 JP 2001143999

PI KATSUHITO TAKAHASHI, HISAKO YAMAMURA, SHINICHI MIYATAKE PC  
C12N15/09, A61K35/76, A61K48/00, AC1P35/00, C12N5/10, C12N5/00, PC

CC Cell specific express replication vector  
PH Key FT Source Location/Qualifiers  
FT FT /organism="Homo sapiens" 1..41  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"

FEATURES Source FT Source Location/Qualifiers  
1..41

ORIGIN

Query Match Score 41; DB 6; Length 41;  
Best Local Similarity 100.0%; Pred. No. 7.e-06;  
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAACATGACAATAGCTCCAAATACCAAGGGCTGAC 41



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:12:09 ; Search time 421.362 Seconds

(without alignments)  
4552.334 Million cell updates/sec

Title: US-10-500-173-1

Perfect score: 41

Sequence: 1 gaaacaatgacacaataccatcagc.....cccaataccaaggcccgtgac 41

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters:

82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing First 45 summaries

Database : EST:  
1: 9b\_est1:  
2: 9b\_est2:  
3: 9b\_est3:  
4: 9b\_htc:  
5: 9b\_est4:  
6: 9b\_est5:  
7: 9b\_est6:  
8: 9b\_est7:  
9: 9b\_gss1:  
10: 9b\_gss2:  
11: 9b\_gss3:

RESULT 1  
A2954724/c  
LOCUS 578 bp DNA linear GSS 27-APR-2001  
DEFINITION 2M0220I01R Mouse 10kb plasmid UGCGC library Mus musculus genomic  
clone UGCGC2M0220I01 R, genomic survey sequence.  
VERSION A2954724  
ACCESSION A2954724.1 GI:13825951  
KEYWORDS GSS  
SOURCE Mus musculus (house mouse)  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Gliridae; Rodentia;  
Sciurognathi; Muroidea; Murinae; Mus.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
c 1	24.2	59.0	578	A2954724	A2954724 2M0220I01
c 2	24.2	59.0	687	B6636361	B6636361 BB636361
c 3	24.2	59.0	817	CX705842	CX705842 SmtdNS0
c 4	24	58.5	578	BG879727	BG879727 EST513778
c 5	23.2	56.6	455	W81232	W81232 zdb5907_07.81
c 6	23.2	56.6	457	DN589073	DN589073 4998.1 L
c 7	23.2	56.6	457	DR037737	DR037737 4998.2 L
c 8	23.2	56.6	457	DR037738	DR037738 4998.3 L
c 9	23.2	56.6	465	A1773494	A1773494 EST255594
c 10	23.2	56.6	624	BG598900	BG598900 EST5031788
c 11	23.2	56.6	736	BQ046841	BQ046841 EST599959
c 12	23	56.6	403	CDD02122	CDD02122 EST0119 N
c 13	23	56.1	429	CD603495	CD603495 RZ1483B0
c 14	23	56.1	444	BM403754	BM403754 ram160 Z
c 15	23	56.1	446	BW881674	BW881674 BW881674
c 16	23	56.1	486	BG799583	BG799583 fo8bh03 Y
c 17	23	56.1	489	AQB91537	AQB91537 HS_3053 A
c 18	23	56.1	571	CB343759	CB343759 CA32BN00
c 19	23	56.1	644	CF232494	CF232494 PtajXK001
c 20	23	56.1	732	BZ773739	BZ773739 mcv78D08.
c 21	23	56.1	760	AG341458	AG341458 Mus muscu
c 22	23	56.1	1246	AG341458	AG341458 Mus muscu

#### ALIGNMENTS

RESULT 1  
A2954724/c  
LOCUS 578 bp DNA linear GSS 27-APR-2001  
DEFINITION 2M0220I01R Mouse 10kb plasmid UGCGC library Mus musculus genomic  
clone UGCGC2M0220I01 R, genomic survey sequence.  
VERSION A2954724  
ACCESSION A2954724.1 GI:13825951  
KEYWORDS GSS  
SOURCE Mus musculus (house mouse)  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Gliridae; Rodentia;  
Sciurognathi; Muroidea; Murinae; Mus.

REFERENCE 1 (bases 1 to 578)  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacons, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A. and Wright, D. Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10 kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunngenetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0220 row: I column: 01  
Seq primer: CACACAGAAACAGCTATGACC  
Class: Plasmid ends  
High quality sequence stop: 578  
Location/Qualifiers 1..578  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UGCGCM0220I01"  
/sex="Female"  
/lab="E. coli strain XL10-Gold, T1-resistant, P-"  
/clone\_lib="Mouse 10kb Plasmid UGCGC library"  
/note="Vector: pND42nv; Purified genomic DNA from M.

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OM nucleic - nucleic search, using sw model

Run on: April 8, 2006, 13:46:44 ; Search time 20.1767 Seconds  
(without alignments)  
3612.096 Million cell updates/sec

Title: US-10-500-173-1  
Perfect score: 41  
Sequence: 1 gaaacaatgaccataatcagc.....cccaataccaaaggccctgac 41

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 130057 seqs, 88870828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Issued\_Patents\_NA.\*

1: /cgm2\_6/podata/1/ina/1\_COMB.seq:\*

2: /cgm2\_6/podata/1/ina/5\_COMB.seq:\*

3: /cgm2\_6/podata/1/ina/6A\_COMB.seq:\*

4: /cgm2\_6/podata/1/ina/H\_COMB.seq:\*

5: /cgm2\_6/podata/1/ina/PCTUS\_COMB.seq:\*

6: /cgm2\_6/podata/1/ina/PP\_COMB.seq:\*

7: /cgm2\_6/podata/1/ina/RE\_COMB.seq:\*

8: /cgm2\_6/podata/1/ina/backfileseq1.seq:\*

9: /cgm2\_6/podata/1/ina/backfileseq1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	41	100.0	15585	3	US-09-949-016-11927		Sequence 11927, A
2	41	100.0	15585	3	US-09-949-016-15627		Sequence 15627, A
C	3	56.1	12302305	3	US-09-198-452A-1		Sequence 12302305
C	4	23	56.1	1230230	3	US-09-438-185A-1	Sequence 1230230
C	5	21.8	53.2	601	3	US-09-949-016-13708	Sequence 13708
C	6	21.8	53.2	42250	3	US-09-949-016-15426	Sequence 15426
C	7	21.6	52.7	601	3	US-09-949-016-196661	Sequence 196661
C	8	21.6	52.7	28585	3	US-09-949-016-17311	Sequence 17311, A
C	9	21	51.2	209210	3	US-09-949-016-15094	Sequence 15094, A
C	10	20.8	50.7	456	3	US-09-328-352-B2	Sequence 82, App1
C	11	20.8	50.7	601	3	US-09-949-016-10354	Sequence 10354,
C	12	20.8	50.7	601	3	US-09-949-016-103355	Sequence 103355,
C	13	20.8	50.7	601	3	US-09-949-016-127545	Sequence 127545,
C	14	20.8	50.7	723	3	US-09-328-352-298	Sequence 298, App
C	15	20.8	50.7	2904	3	US-09-054-272-29	Sequence 29, App1
C	16	20.8	50.7	4450	3	US-09-949-016-2850	Sequence 2850, App1
C	17	20.8	50.7	4510	3	US-09-919-039-16	Sequence 16, App1
C	18	20.8	50.7	34531	3	US-09-949-016-14604	Sequence 1604, A
C	19	20.8	50.7	36223	3	US-09-949-016-14417	Sequence 14417, A
C	20	20.8	50.7	73757	3	US-09-949-016-15369	Sequence 15369, A
C	21	20.6	50.2	50109	3	US-09-949-016-14112	Sequence 14112, A
C	22	20.6	50.2	98708	3	US-09-949-016-16392	Sequence 16392, A
C	23	20.4	49.8	601	3	US-09-949-016-54221	Sequence 64221, A
C	24	49.8	981	3	US-09-270-767-956	Sequence 956, App	

## ALIGNMENTS

RESULT 1  
US-09-949-016-11927  
; Sequence 11927, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949-016  
; PRIORITY APPLICATION NUMBER: 60/241,755  
; CURRENT FILING DATE: 2000-10-20  
; PRIORITY FILING DATE: 2000-10-20  
; PRIORITY APPLICATION NUMBER: 60/237,768  
; PRIORITY FILING DATE: 2000-10-03  
; PRIORITY APPLICATION NUMBER: 60/231,498  
; PRIORITY FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 20012  
; SOFTWARE: FastSBQ For Windows Version 4.0  
; SEQ ID NO: 11927  
; LENGTH: 15585  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1) ..(15585)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-11927

Query Match 100.0%; Score 41; DB 3; Length 15585;  
Best Local Similarity 100.0%; Pred. No. 2.1e-06;  
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAACATGACAGATAGCTCCAAATACCAAGGGCTGAC 41  
Db 1819 GAACATGACAGATAGCTCCAAATACCAAGGGCTGAC 1859

RESULT 2  
US-09-949-016-15627  
; Sequence 15627, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307

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## OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:22:52 : Search time 96.2918 Seconds

(without alignments)  
 3521.011 Million cell updates/sec

Perfect score: 41

Sequence: 1 gaaacaaatgacacaatccgc.....ccaaataccaaaggctgtac 41

Scoring table: IDENTITY\_NUC  
 Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 413468905 residues

Total number of hits satisfying chosen parameters:

19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications\_NA\_Main:  
 1: /cgn2\_6\_ptodata/1/pubpna/us08\_pubcomb.seq:  
 2: /cgn2\_6\_ptodata/1/pubpna/us08\_pubcomb.seq:  
 3: /cgn2\_6\_ptodata/1/pubpna/us9a\_pubcomb.seq:  
 4: /cgn2\_6\_ptodata/1/pubpna/us10a\_pubcomb.seq:  
 5: /cgn2\_6\_ptodata/1/pubpna/us10a\_pubcomb.seq:  
 6: /cgn2\_6\_ptodata/1/pubpna/us10b\_pubcomb.seq:  
 7: /cgn2\_6\_ptodata/1/pubpna/us10b\_pubcomb.seq:  
 8: /cgn2\_6\_ptodata/1/pubpna/us10d\_pubcomb.seq:  
 9: /cgn2\_6\_ptodata/1/pubpna/us10e\_pubcomb.seq:  
 10: /cgn2\_6\_ptodata/1/pubpna/us11\_pubcomb.seq:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41	100.0	41	8 US-10-500-173-1	Sequence [REDACTED] Appli
2	41	100.0	41	8 US-10-500-173-1	Sequence [REDACTED] Appli
3	41	100.0	260	8 US-10-477-797-2	Sequence [REDACTED] Appli
4	41	100.0	260	8 US-10-500-173-2	Sequence [REDACTED] Appli
5	41	100.0	333	8 US-10-477-797-3	Sequence [REDACTED] Appli
6	41	100.0	333	8 US-10-500-173-3	Sequence [REDACTED] Appli
C 7	24.2	59.0	297	7 US-10-424-599-2981	Sequence [REDACTED] Appli
C 8	23.6	57.6	616	4 US-10-925-065A-886727	Sequence [REDACTED] Appli
C 9	23	56.1	1230025	6 Sequence [REDACTED] Appli	Sequence [REDACTED] Appli
10	22.6	55.1	554	5 US-10-027-632-255758	Sequence [REDACTED] Appli
11	22.6	55.1	554	5 US-10-027-632-265759	Sequence [REDACTED] Appli
12	22.6	55.1	554	5 US-10-027-632-265760	Sequence [REDACTED] Appli
13	22.6	55.1	554	6 US-10-027-632-255758	Sequence [REDACTED] Appli
14	22.6	55.1	554	6 US-10-027-632-265759	Sequence [REDACTED] Appli
15	22.6	55.1	554	6 US-10-027-632-265760	Sequence [REDACTED] Appli
C 16	22.4	54.6	472	4 US-09-925-065A-591662	Sequence [REDACTED] Appli
C 17	22.4	54.6	472	4 US-09-925-065A-591663	Sequence [REDACTED] Appli
18	22.4	54.6	526	5 US-10-027-632-273806	Sequence [REDACTED] Appli
19	22.4	54.6	526	6 US-10-027-632-273806	Sequence [REDACTED] Appli
20	22.4	54.6	530	4 US-09-925-065A-592112	Sequence [REDACTED] Appli
21	22.4	54.6	530	4 US-09-925-065A-592113	Sequence [REDACTED] Appli
22	22.4	54.6	530	4 US-09-925-065A-592114	Sequence [REDACTED] Appli
C 23	22.4	54.6	574	4 US-09-925-065A-411954	Sequence [REDACTED] Appli

## SUMMARIES

RESULT 1  
 US-10-477-797-1  
 ; Sequence 1, Application US/10477797  
 ; Publication No. US20040197308A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: JAPAN SCIENCE AND TECHNOLOGY CORPORATION  
 ; TITLE OF INVENTION: Replication Vector Showing Cell-Specific Expression  
 ; FILE REFERENCE: K010\_PCT  
 ; CURRENT APPLICATION NUMBER: US/10/477-797  
 ; CURRENT FILING DATE: 2003-11-13  
 ; PRIOR APPLICATION NUMBER: JP P2001-143999  
 ; PRIOR FILING DATE: 2001-05-14  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1  
 ; LENGTH: 41  
 ; ORGANISM: Homo sapiens  
 ; TYPE: DNA  
 ; US-10-477-797-1

RESULT 2  
 US-10-500-173-1  
 ; Sequence 1, Application US/10500173  
 ; Publication No. US2005032214A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Katsuhito TAKAHASHI  
 ; APPLICANT: Hisako YAMAMURA  
 ; TITLE OF INVENTION: Cell specific expression/replication vector  
 ; FILE REFERENCE: 443-9-102  
 ; CURRENT APPLICATION NUMBER: US/10/500,173  
 ; CURRENT FILING DATE: 2004-06-24  
 ; PRIOR APPLICATION NUMBER: JP P2001-402102  
 ; PRIOR FILING DATE: 2001-12-28  
 ; NUMBER OF SEQ ID NOS: 9  
 ; SOFTWARE: PatentIn Ver. 2.1

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## OM nucleic - nucleic search, using SW model

Run on: April 9, 2006, 02:36:12 ; Search time 75.6625 Seconds

(without alignments)  
2167.823 Million cell updates/sec

Title: US-10-500-173-1

Perfect score: 41

Sequence: 1 gaaacaatgacacaatcagc.....cccaataccaaaggccctgac 41

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Scored:  
9267905 seqs, 2000278028 residues

number of hits satisfying chosen parameters:

18535810

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

processing: Minimum Match 0%

Maximum Match 100%

Listings first 45 summaries

Base : Published Applications NA New:\*

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1: /SIDSS5/ptodata/1/pubna/_US08_NEWP_PUB.seq;*
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4: /SIDSS5/ptodata/1/pubna/_US05_NEWP_PUB.seq;*
5: /SIDSS5/ptodata/1/pubna/_US09_NEWP_PUB.seq;*
6: /SIDSS5/ptodata/1/pubna/_US10_NEWP_PUB.seq;*
7: /SIDSS5/ptodata/1/pubna/_US11_NEWP_PUB.seq;*
8: /SIDSS5/ptodata/1/pubna/_US10_NEWP_PUB.seq;*
9: /SIDSS5/ptodata/1/pubna/_US10_NEWP_PUB.seq;*
10: /SIDSS5/ptodata/1/pubna/_US16_NEWP_PUB.seq;*
11: /SIDSS5/ptodata/1/pubna/_US11_NEWP_PUB.seq;*
12: /SIDSS5/ptodata/1/pubna/_US11_NEWP_PUB.seq;*
13: /SIDSS5/ptodata/1/pubna/_US11_NEWP_PUB.seq;*
14: /SIDSS5/ptodata/1/pubna/_US11_NEWP_PUB.seq;*
15: /SIDSS5/ptodata/1/pubna/_US60_NEWP_PUB.seq;*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	23.6	616	6	US-09-925-065A-836727	Sequence 836727, Sequence 495, AP
c 2	23	56.1	13187	14	Sequence 495, AP
c 3	22.6	55.1	554	9	Sequence 100586,
c 4	22.6	55.1	554	9	Sequence 100587,
c 5	22.6	55.1	554	9	Sequence 100588,
c 6	22.6	55.1	554	10	Sequence 713995,
c 7	22.6	55.1	554	10	Sequence 713996,
c 8	22.6	55.1	554	10	Sequence 713997,
c 9	22.4	54.6	472	6	Sequence 591662,
c 10	22.4	54.6	472	6	Sequence 591663,
c 11	22.4	54.6	530	6	Sequence 592112,
c 12	22.4	54.6	530	6	Sequence 592113,
c 13	22.4	54.6	558	10	Sequence 592114,
c 14	22.4	54.6	558	10	Sequence 592115,
c 15	22.4	54.6	558	10	Sequence 592116,
c 16	22.4	54.6	558	10	Sequence 592117,
c 17	22.4	54.6	558	10	Sequence 592118,
c 18	22.4	54.6	558	10	Sequence 592119,

Score 23.6; DB 6; Length 616;  
Best Local Similarity 76.3%; Pred. No. 10;  
Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 4 ACGATGACACAATCAGTCCCAATACCGGGCTGAC 41  
Db 357 AGAAAGAAACAGCTCCAAATCAGGGCTGAC 320

RESULT 2  
US-11-136-527-4095  
; Sequence 4095, Application US/11136527

Sequence 11226668,  
Sequence 41954,  
Sequence 47894,  
Sequence 1091503,  
Sequence 592115,  
Sequence 552206,  
Sequence 886822, A  
Sequence 189923,  
Sequence 803332,  
Sequence 52119, A  
Sequence 41119, A  
Sequence 802711,  
Sequence 856293,  
Sequence 856294,  
Sequence 892774,  
Sequence 870115,  
Sequence 545231,  
Sequence 545232,  
Sequence 1158640,  
Sequence 1158641,  
Sequence 545605,  
Sequence 1159014,  
Sequence 29601, A  
Sequence 32429, A  
Sequence 32429, A

## ALIGNMENTS

RESULT 1  
US-09-925-065A-8365727/C  
; Sequence 836727, Application US/09925065A  
; Publication No. US20040181048A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827-135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; NUMBER OF SEQ ID NOS: 957086  
; SEQ ID NO: 957086  
; LENGTH: 616  
; SOFTWARE: FastSESEQ for Windows Version 4.0  
; TYPE: DNA  
; ORGANISM: Homo sapiens



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:04:37 ; Search time 376.877 Seconds  
(without alignments)

4597.840 Million cell updates/sec  
Title: US-10-500-173-2

Perfect score: 260  
Sequence: 1 gaacaatgaccataatcagc.....gccttagccatcgccagg 260

Scoring table: IDENTITY\_NUC  
Gapp 10.0 , Capext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : N\_Geneseq\_21.\*  
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2: Geneseqm1990s; \* .  
3: Geneseqm2000s; \* .  
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6: Geneseqm2002as; \* .  
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8: Geneseqm2003as; \* .  
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10: geneseqp2003ce; \* .  
11: geneseqn2003db; \* .  
12: geneseqn2004ab; \* .  
13: geneseqp2004bs; \* .  
14: geneseqn2005s; \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match %	Length	DB ID	Description
1	260	100.0	260	10	ADC21271	Add21271 Human cel
2	260	100.0	260	10	ADD6310	Add6310 Human ang
3	260	100.0	260	10	ADD29394	Add29394 Antiarter
4	260	100.0	260	10	ABZ70045	Abz70045 Oligonucle
5	260	100.0	333	10	ADC21272	Add21272 Human cel
6	260	100.0	333	10	ADD68311	Add68311 DNA Compr
7	260	100.0	333	10	ADD29395	Add29395 Human cel
8	260	100.0	333	10	ABZ70046	Abz70046 Human cel
9	213	81.9	1206	13	ACN1242	Acn1242 Human dia
10	213	81.9	1257	13	ACN1241	Acn1241 Human dia
11	213	81.9	1395	13	ACN1239	Acn1239 Human dia
12	213	81.9	1395	13	ACN1240	Acn1240 Human dia
13	164	63.1	1605	12	ADN04009	Adn04009 Antisori
14	135	51.9	1586	10	ADJ56427	Adj56427 Human cDN
15	100	38.5	1522	2	AAQ86719	Adq86719 Carponin
16	100	38.5	1522	2	AAU18663	Aau18663 Carponin
17	92	35.4	1517	6	ABL62318	Abi62318 Colon ade
18	92	35.4	1517	6	ABL63488	Abi69488 Prostate
19	35.4				ABT10830	Abt10830 Human bre

LISTINGS

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ID ADC1271	ID ADC1271	standard; DNA;	DNA;	260 BP.		
AC ADC21271;						
DT 18-DEC-2003	(first entry)					
XX	XX	XX	XX	XX	XX	XX
DB Human cell-specific expression vector-related DNA sequence #2.	DB					
KW human; cell-specific expression vector; cell-specific replication vector;	XX					
KW gene therapy; malignant tumour; liver fibrosis; postoperative stenosis;	XX					
KW organ transplantation; arteriosclerosis; diabetic omentopathy; ds.	XX					
OS Homo sapiens.	OS					
XX	XX					
PN WO2003057888-A1.	PN					
PD 17-JUL-2003.	PD					
XX	XX					
PP 26-DEC-2002; 2002WO-JP013683.	PP					
PR 28-DEC-2001; 2001JP-00402102.	PR					
PR 30-AUG-2002; 2002JP-00255395.	PR					
PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.	PA					
PI Takahashi K., Yamamura H;	PI					
XX	XX					
DR WPT; 2003-577527/54.	DR					
XX	XX					
PT Call-specific expression/replication vector containing transcription	PT					
initiating regulating domain of human calponin gene, applicable in gene	PT					
therapy of malignant tumor lung and liver fibrosis or diabetic	PT					
omentopathy.	PT					
XX	XX					
PS Claim 3; SEQ ID NO 2; 66pp; Japanese.	PS					
XX	XX					
CC The invention comprises a cell-specific expression/replication vector	CC					
CC which does not act on normal cells. The vector of the invention is useful	CC					
CC in gene therapy for the treatment of malignant tumour, liver fibrosis,	CC					
CC postoperative stenosis (e.g. stenosis after organ transplantation),	CC					

	BP261780	BP261780
	BP206459	BP206459
	BP328199	BP328199
	CN36947	17000424
	BP377953	BP377953
	CN36953	170005991
	CR620483	full-lens
	CR752039	AGENCOURT
	BX374338	BX374338
	CX753789	AGENCOURT
	BM553077	AGENCOURT
	AL046845	DKEP258614
	AL046846	DKEP258616
	AL046924	DKEP258614
	BL771104	603059671
	AL533558	AL533558
	BUS38479	AGENCOURT
	R13007	Y711C02.r1
	CD611240	560159631
	CD611241	560159631
	CV811526	AGENCOURT
	BP341700	BP341700
	BP377279	BP377279
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24	99.8	38.4
25	97	37.3
26	94.2	36.2
27	92	35.4
28	91	35.0
29	91	35.0
30	90	34.6
31	88.4	34.0
32	88.2	33.9
33	88.2	33.9
34	88	33.8
35	88	33.8
36	87.4	33.6
37	87	33.5
38	86.4	33.2
39	86	33.1
40	85	32.7
41	85	32.7
c	42	85
	43	82
	44	77
	45	77
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ring table:	IDENTITY_NUC	
	Gapext 1.0	
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	imum DB seq length: 0	

ATTENDANCE

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2:	gb_est2:*								
3:	gb_est3:*								
4:	gb_htc:*								
5:	gb_est4:*								
6:	gb_est5:*								
7:	gb_est6:*								
8:	gb_est7:*								
9:	gb_gbs1:*								
10:	gb_gbs2:*								
11:	gb_gbs3:*								
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.									
SUMMARIES									
built	No.	Score	Query	Match	Length	DB	ID	Description	
1	209.4	80.5	818	2	BG718473	BG718473	60696515	B0696515	
2	164	63.1	596	2	BG720683	BG720683	60692572	BG720683	
3	152	58.5	789	3	BI831662	BI831662	603078806	BI831662	
4	112.4	43.2	577	3	BI831410	BI831410	603074509	BI831410	
5	103	39.6	300	1	AU094476	AU094476	AU094476	AU094476	
6	103	39.6	580	3	BP257909	BP257909	BP257909	BP257909	
7	103	39.6	580	3	BP343021	BP343021	BP343021	BP343021	
8	103	39.6	581	3	BP216801	BP216801	BP216801	BP216801	
9	103	39.6	581	3	BP375335	BP375335	BP375335	BP375335	
10	103	39.6	582	3	BP262111	BP262111	BP262111	BP262111	
11	103	39.6	582	3	BP311382	BP311382	BP311382	BP311382	
12	103	39.6	582	3	BP329165	BP329165	BP329165	BP329165	
13	103	39.6	582	3	BP330989	BP330989	BP330989	BP330989	
14	103	39.6	582	3	BP331068	BP331068	BP331068	BP331068	
15	103	39.6	583	3	BP329772	BP329772	BP329772	BP329772	
16	103	39.6	588	3	BP329527	BP329527	BP329527	BP329527	
17	103	39.6	791	1	AU136287	AU136287	AU136287	AU136287	
18	103	39.6	874	1	AU122686	AU122686	AU122686	AU122686	
19	102	39.2	778	8	CX756920	CX756920	CX756920	CX756920	
20	102	39.2	930	5	BUS6756	BUS6756	BUS6756	BUS6756	
21	101.4	39.0	580	3	BP372922	BP372922	BP372922	BP372922	
22	101.4	39.0	583	3	BP330966	BP330966	BP330966	BP330966	
REFERENCE	AUTHORS	1 (bases 1 to 818)	NIH-MGC	TITLE	NIH-MGC	CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki Toshiyuki and Piero Carninci (RIKEN)	Unpublished (1999)	COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps@nlm.nih.gov
JOURNAL						DNA Sequencing by: Incyte Genomics, Inc.			Tissue Arrayed by: The I.M.A.G.E. Consortium (LNNL)
						Clone distribution information can be found through the I.M.A.G.E. Consortium/LNNL at: http://image.llnl.gov			CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNNL)
						Plate: LIAM10746 row: n column: 03			DNA Sequencing by: Incyte Genomics, Inc.
						High Quality stop: 798.			Clone distribution information can be found through the I.M.A.G.E. Consortium/LNNL at: http://image.llnl.gov
						Location/Qualifiers			Location/Qualifiers
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						/clone_lib="NHGRC_97"			/clone_lib="NHGRC_97"
						/note="Organ: testis; vector: pBluescriptR (modified pBluescript KS+); Site 1: BamHI; Site 2: SalI-XbaI (gtcgag), Oligo-dT primed using primer			/note="Organ: testis; vector: pBluescriptR (modified pBluescript KS+); Site 1: BamHI; Site 2: SalI-XbaI (gtcgag), Oligo-dT primed using primer
						5'-TTTTTTTTTTTTTTVN-3", size-selected for average insert size 2.2 kb and normalized to Ror 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M Brownstein			5'-TTTTTTTTTTTTVN-3", size-selected for average insert size 2.2 kb and normalized to Ror 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M Brownstein

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OM nucleic - nucleic search, using sw model

Run on: April 8, 2006, 13:46:44 ; Search time 127.95 Seconds

(without alignments)

3612.096 Million cell updates/sec

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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4: /cg2_6/podata/1/ina/H_COMB.seq:*
5: /cg2_6/podata/1/ina/B_COMB.seq:*
6: /cg2_6/podata/1/ina/PCOMB.seq:*
7: /cg2_6/podata/1/ina/EP_COMB.seq:*
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9: /cg2_6/podata/1/ina/backfile1.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	260	100.0	15585	3	US-09-949-016-11927		Sequence 11927, A
2	260	100.0	15585	3	US-09-949-016-15627		Sequence 15627, A
3	78	30.0	1504	3	US-09-949-016-3885		Sequence 3885, AP
4	36	8	14.2	8186	3	US-10-029-517-19	Sequence 185, AP
C	6	36	13.8	120	3	US-09-313-294-A4341	Sequence 19, APPI
6	34.6	13.3	601	3	US-09-949-016-169734	Sequence 4341, AP	
7	34.6	13.3	3510	3	US-09-265-585C-95	Sequence 169734, AP	
8	34.6	13.3	5962	9	US-09-949-016-15627	Sequence 95, APPI	
C	9	34.6	13.3	5386025	5	Patent No. 5386025	Patent No. 5386025
10	34.6	13.3	5975	2	US-08-404-354B-1	Sequence 1, APPI	
C	11	34.6	13.3	5975	2	US-08-314-083B-1	Sequence 1, APPI
C	12	34.6	13.3	5975	2	US-08-435-75B-1	Sequence 1, APPI
C	13	34.6	13.3	5975	2	US-08-336-257A-3	Sequence 3, APPI
C	14	34.6	13.3	5975	3	US-08-884-599-1	Sequence 1, APPI
C	15	34.6	13.2	23187	3	US-09-499-1522-1	Sequence 1, APPI
C	16	33.4	12.8	601	3	US-09-949-016-169736	Sequence 169736,
C	17	33.4	12.8	2400	3	US-08-930-001-1	Sequence 1, APPI
C	18	33.4	12.8	2400	3	US-09-091-885-1	Sequence 1, APPI
C	19	33.4	12.8	18079	3	US-09-949-016-13344	Sequence 13344, A
C	20	33.4	12.8	99748	3	US-09-949-016-11990	Sequence 11990, A
C	21	33.4	12.8	79749	3	US-09-16518	Sequence 16518, A
C	22	33	12.7	342	3	US-09-893-737-93	Sequence 93, APPI
C	23	33	12.7	601	3	US-09-949-016-55187	Sequence 55187, A
C	24	33	12.7	601	3	US-09-949-016-55188	Sequence 55188, A

Best Local Similarity 100.0%; Score 260; DB 3; Length 15585;

Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

SEQ ID NO: 11927 LENGTH: 15585

TYPE: DNA ORGANISM: Human PRIMATE: NAME/KEY: misc\_feature LOCATION: (1)...(15585)

OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-11927

RESULT 1  
US-09-949-016-11927  
Sequence 11927 Application US/09949016  
; Patent No. 5386025  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. CRAIG et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: PBS-SEQ for Windows Version 4.0  
; SEQ ID NO: 11927 LENGTH: 15585  
; TYPE: DNA  
; PRIMATE: NAME/KEY: misc\_feature  
; LOCATION: (1)...(15585)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-11927

Query Match 100.0%; Score 260; DB 3; Length 15585;  
Best Local Similarity 100.0%; Pred. No. 1.1e-63;  
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAACATGACAAATAGCTCCAAATCAGGGCTGACATCACAGGGAGGGAG 60

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Qy 121 CGGCCCTGGAAAGAACCCGGTCGCTCCCTAACATGAGCTGAGCTGAA 1878

Db 1939 CGGCCCTGGAAAGAACCCGGTCGCTCCCTAACATGAGCTGAGCTGAA 1998

Qy 181 TGTGCAAGCGAACTGGCGCTGCGTCTGAGCTGCACTGCCACTGGCCC 240

GenCore version 5.1.7  
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## OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:22:52 ; Search time 610.631 Seconds  
(without alignments)  
3521.011 Million cell updates/sec

Title: US-10-500-173-2

Perfect score: 260

Sequence: 1 gaaacaatgacacaatacagg.....gcagagccacggccagg 260

Scoring table: IDENTITY\_NUC Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%  
Listing first 45 summaries

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2: /cgns\_6.ptodata/1/pubpna/us08\_pubcomb.seq\*  
3: /cgns\_6.ptodata/1/pubpna/us09\_pubcomb.seq\*  
4: /cgns\_6.ptodata/1/pubpna/us10\_pubcomb.seq\*  
5: /cgns\_6.ptodata/1/pubpna/us11\_pubcomb.seq\*  
6: /cgns\_6.ptodata/1/pubpna/us12\_pubcomb.seq\*  
7: /cgns\_6.ptodata/1/pubpna/us13\_pubcomb.seq\*  
8: /cgns\_6.ptodata/1/pubpna/us14\_pubcomb.seq\*  
9: /cgns\_6.ptodata/1/pubpna/us15\_pubcomb.seq\*  
10: /cgns\_6.ptodata/1/pubpna/us16\_pubcomb.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	260	100.0	260	8 US-10-500-173-2	Sequence 3, Appli
3	260	100.0	333	8 US-10-477-797-3	Sequence 3, Appli
4	260	100.0	333	8 US-10-500-173-3	Sequence 1.778, AP
5	55.0	1580	6	US-10-062-674-1778	Sequence 233, Appli
6	135	51.9	1586	5 US-10-084-817-233	Sequence 354, Appli
7	92	35.4	1517	3 US-09-969-708-354	Sequence 655, Appli
8	92	35.4	1517	3 US-09-873-3676-655	Sequence 1209, AP
9	92	35.4	1517	9 US-10-843-641A-655	Sequence 655, Appli
10	92	35.4	1517	9 US-10-843-641A-7825	Sequence 7825, AP
11	92	35.4	1517	9 US-10-756-149-3969	Sequence 3969, AP
12	92	35.4	1517	5 US-10-205-823-69	Sequence 69, Appli
13	78	30.0	1504	8 US-10-788-792-36	Sequence 36, Appli
14	78	30.0	1504	8 US-10-473-974-194	Sequence 194, AP
15	78	30.0	1504	10 US-11-051-454-69	Sequence 69, Appli
16	78	29.3	156	8 US-10-357-930-14461	Sequence 14461, A
17	76.2	29.3	711	8 US-10-027-632-270660	Sequence 270660, A
18	76.2	16.5	455	5 US-10-027-632-270661	Sequence 270661, A
C 19	42.8	16.5	455	5 US-10-027-632-270661	Sequence 270661, A
C 20	42.8	16.5	455	6 US-10-027-632-270660	Sequence 270660, A
C 21	41.6	16.0	455	6 US-10-027-632-270661	Sequence 270661, A
C 22	41.6	16.0	455	6 US-10-027-632-270661	Sequence 270661, A
C 23	41	15.8	41	8 US-10-477-797-1	Sequence 1, Appli

## RESULT 1

US-10-477-797-2

; Sequence 2, Application US/10477797

; Publication No. US20040197308A1

; GENERAL INFORMATION

; APPLICANT: JAPAN SCIENCE AND TECHNOLOGY CORPORATION

; FILE REFERENCE: K01002PT

; CURRENT APPLICATION NUMBER: US/10/477-797

; CURRENT FILING DATE: 2003-11-13

; PRIOR APPLICATION NUMBER: JP P2001-143999

; PRIOR FILING DATE: 2001-05-14

; NUMBER OF SEQ ID NOS: 16

; SEQ ID NO: 2

; LENGTH: 260

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-477-797-2

## ALIGNMENTS

Query Match 100.0%; Score 260; Pred. No. 3.8e-73;

Best Local Similarity 100.0%; Mismatches 0; Indels 0; Gaps 0;

Matches 260; Conservative 260;

Qy 1 GAACATGACAACTAGTCCTCAACAGGGCTGCATAGGGGGGGGGAG 60

Db 1 GAACATGACAACTAGTCCTCAACAGGGCTGCATAGGGGGGGAG 60

Qy 61 GCAGCTAGGTTGGGGAGGTGCCGCCCTTGAGCCTGCAGCCATGCAA 120

Db 61 GCAGCTAGGTTGGGGAGGTGCCGCCCTTGAGCCTGCAGCCATGCAA 120

Qy 121 CGGCCCTGGAGAACCGGGTGCCTCGAGCTTCAAAACATGTGAGGAGAG 180

Db 121 CGGCCCTGGAGAACCGGGTGCCTCGAGCTTCAAAACATGTGAGGAGAG 180

Qy 181 TGTGCAAGCGGAATTCAGCCCTGCCTCTAGCTGCCCC 240

Db 181 TGTGCAAGCGGAATTCAGCCCTGCCTCTAGCTGCCCC 240

Qy 241 GCGAGGCCACGGCCAGC 260

Db 241 GCGAGGCCACGGCCAGC 260

## RESULT 2

Result No.	Score	Query Match	Length	DB ID	Description	Summaries
1	164	63.1	1605	14 US-11-000-688-1504	Sequence 1504, AP	* Pred. No. 3.2e-55; Score 164; DB 14; Length 1605;
2	78	30.0	1504	11 US-11-245-147-194	Sequence 194, APP	Match 164;保守型,匹配数 0, 缺口 0;
c	3	36.8	14.2	1084	9 US-10-517-696-92	NAME/KEY: misc_feature
c	4	36.8	14.2	1582	11 US-11-051-857-464	LOCATION: (1)..(1605)
c	5	34.8	14.2	1582	11 US-11-043-806-59	OTHER INFORMATION: calponin 1, basic, smooth muscle(CNN1) gene.
c	6	34.8	13.4	13299	14 US-11-124-367A-5011	Query Match 63.1%; Best Local Similarity 100.0%; Pred. No. 3.2e-55;
c	7	34.4	13.2	23187	11 US-11-236-198-1	Matches 164;保守型,匹配数 0, 缺口 0;
c	8	33.6	12.9	2213	9 US-10-330-773-94	NAME/KEY: misc_feature
c	9	33.6	12.9	26563	9 US-10-330-773-94	LOCATION: (1)..(1605)
c	10	33.4	12.8	153376	14 US-11-121-086-5	OTHER INFORMATION: calponin 1, basic, smooth muscle(CNN1) gene.
c	11	33.4	12.8	172543	14 US-11-121-086-6	Query Match 63.1%; Best Local Similarity 100.0%; Pred. No. 3.2e-55;
c	12	33.2	12.8	398	11 US-11-116-881A-1686	Matches 164;保守型,匹配数 0, 缺口 0;
c	13	33.2	12.8	22855	14 US-11-124-368A-2908	NAME/KEY: misc_feature
c	14	33	12.7	1521	14 US-11-136-527-1998	LOCATION: (1)..(1605)
c	15	33	12.7	3752	8 US-10-500-185-28772	OTHER INFORMATION: calponin 1, basic, smooth muscle(CNN1) gene.
c	16	33	12.7	3752	8 US-10-750-623-28772	Query Match 63.1%; Best Local Similarity 100.0%; Pred. No. 3.2e-55;
c	17	32.8	12.6	614	6 US-09-925-065A-780229	Matches 164;保守型,匹配数 0, 缺口 0;
c	18	32.8	12.6	978	10 US-10-301-480-548844,	NAME/KEY: misc_feature

Result No.	Score	Query Match	Length	DB ID	Description
1	333	100.0	333	6 BD181248	BD181248 Cell spec
2	333	100.0	333	6 BD182149	BD182149 Cell spec
3	311.4	99.5	142645	8 AC008481	AC008481 Homo sapi
4	323	97.0	1221	8 D85611	D85611 Human smoot
C	5	308	92.5	314	8 HS12HAR
6	261.6	78.6	224294	14 AC151861	AC151861 Colobus 9
7	260	78.1	260	6 BD181247	BD181247 Cell spec
8	260	78.1	260	6 BD182148	BD182148 Cell spec
9	259.6	78.0	178488	14 AC151856	AC151856 Papio ham
10	251.2	75.4	186803	14 AC151868	AC151868 Calithri
C	12	246.4	74.5	181714	14 AC151893
13	246.4	74.0	163264	14 AC151894	AC151894 Saimiri b
14	233.4	70.1	236017	14 AC151886	AC151886 Calicebu
15	227.8	68.4	1600	8 BC022015	BC022015 Lemur cat
16	227.8	68.4	1605	6 CS119457	CS119457 Sequence
17	213.8	64.2	1633	8 BC036307	BC036307 Homo sapi
C	18	197	53.2	199562	14 AC163457 Bos tauru

GenCore version 5.1.7  
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## OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:04:37 ; Search time 482.692 Seconds  
(without alignments)

4597.840 Million cell updates/sec  
20 141.8 42.6 1499 12 ADQ83552

21 141.8 42.6 1504 4 AAD7354

22 141.8 42.6 1504 8 ABZ4836

23 141.8 42.6 1504 10 ADB75245

24 141.8 42.6 1504 13 ADD99030

25 103.6 31.1 425 9 ACH0634

26 89.4 26.8 711 5 ABV14470

27 86.5 26.0 156 5 ABV14470

28 62.4 18.7 538 6 ABN7303

29 57.8 17.4 698 5 ABV05301

30 43.6 13.1 120 10 ABX85881

31 43.4 13.0 1932 6 ABK03774

32 43.4 13.0 1932 10 ADB58375

33 43.4 13.0 1932 10 ADB58375

34 41.4 13.0 1932 13 ADY41198

35 43.2 13.0 696 12 ADY40452

36 41.6 12.5 1499 12 ABL71519

37 41.6 12.5 1499 12 ADM86965

38 41.2 12.4 283 3 AAC09556

39 41.2 12.4 840 14 AEI19761

40 41.2 12.4 1866 12 ADG64918

41 41.2 12.4 2122 6 ABN5249

42 41.2 12.4 2122 13 ADP54264

43 41.2 12.4 2122 14 ADY14592

44 41.2 12.4 2161 8 ACCD6585

45 41.2 12.4 41 10 ADC21270

## ALIGNMENTS

RESULT 1  
ID ADC21272 standard; DNA; 333 BP.

XX ADC21272;  
AC

DT 18-DEC-2003 (first entry)  
XX

DE Human calponin gene promoter with its structural gene fragment.  
XX

KW human; cell-specific expression vector; cell-specific replication vector;

KW gene therapy; malignant tumour; liver fibrosis; postoperative stenosis;

KW organ transplantation; arteriosclerosis; diabetic omentopathy; ds;

KW calponin; promoter; structural gene fragment.

XX Homo sapiens.

OS

XX WO2003057888-A1.

PN 17-JUL-2003.

XX PD 26-DEC-2002; 2002WO-JP011683.

XX PR 28-DEC-2001; 2001JP-00402102.

XX PR 30-AUG-2002; 2002JP-00255395.

PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.

XX PI Takahashi K, Yamamura H;

XX DR WPI; 2003-577527/54.

XX PD 17-JUL-2003.

XX PS Claim 4; SEQ ID NO 3; 65pp; Japanese.

XX The invention comprises a cell-specific expression/replication vector containing transcription initiation regulating domain of human calponin gene, applicable in gene therapy of malignant tumor lung and liver fibrosis or diabetic omentopathy.

CC CC which does not act on normal cells. The vector of the invention is useful in gene therapy for the treatment of: malignant tumour, liver fibrosis,

CC CC

## SUMMARIES

Result No. Query Score Match Length DB . ID Description

1 333 100.0 333 10 ADC21272 Human cal

Add6311 DNA compr

Add29395 Human cal

Abz70046 Human cal

Acn41242 Human dia

Acn41241 Human dia

Acn41239 Human dia

Acn41240 Human dia

Adc21271 Human cel

Add6310 Human ang

Add28394 Antiarer

Abz70045 Oligonucl

Adn04009 Antispori

Adj56427 Human CDN

Aaq86719 Carpon

Abt8663 Carpon

Abt162318 Colpon

Abt169488 Prostate

Abt10830 Human bre

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OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:12:09 ; Search time 3422.44 Seconds  
 (without alignments)  
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Title: US-1-0-500-173-3

Perfect score: 333

Sequence: 1. gaacaatgaccataatcagc.....taagaacaaggtaggggtgg 3 33

Scoring table: IDENTITY\_NUC  
 GapP 10.0 , gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0\$  
 Maximum Match 100%  
 Listing first 45 summaries

Database : EST:  
 1: gb\_est1:  
 2: gb\_est2:  
 3: gb\_est3:  
 4: gb\_hrc:  
 5: gb\_est4:  
 6: gb\_est5:  
 7: gb\_est6:  
 8: gb\_est7:  
 9: gb\_gss1:  
 10: gb\_gss2:  
 11: gb\_gss3:  
 .  
 .  
 .

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	273.2		82.0	818	2	BG718473	BG718473 602696515F1 NIH_MGC_97 Homo sapiens mRNA sequence.
2	227.8		68.4	596	2.	BG720683	BG720683 602692572 RIKEN
3	216		64.9	789	3	BI831662	BI831662 50378806
4	176.2		52.9	577	3	BI831410	BI831410 603074509
5	166.8		50.1	300	1	AU099476	AU099476 AU099476
6	166.8		50.1	580	3	BP257909	BP257909 BP257909
7	166.8		50.1	580	3	BP343021	BP343021 BP343021
8	166.8		50.1	581	3	BP216801	BP216801 BP216801
9	166.8		50.1	581	3	BP375335	BP375335
10	166.8		50.1	582	3	BP262111	BP262111
11	166.8		50.1	582	3	BP311382	BP311382
12	166.8		50.1	582	3	BP329165	BP329165
13	166.8		50.1	582	3	BP330989	BP330989
14	166.8		50.1	582	3	BP331068	BP331068
15	166.8		50.1	583	3	BP329772	BP329772
16	166.8		50.1	588	3	BP32527	BP32527
17	166.8		50.1	791	1	AU136287	AU136287
18	166.8		50.1	874	1	AU122666	AU122666
19	165.8		49.8	566	3	BP261780	BP261780
20	165.8		49.8	778	8	CX756920	CX756920
21	165.8		49.8	930	5	BU526756	BU526756
22	165.2		49.6	580	3	BP372922	BP372922

## ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	COMMENT
1	BG718473	602696515F1 NIH_MGC_97 Homo sapiens mRNA sequence.	BG718473	BG718473	EST.	EST.	Homo sapiens (human)	1 (bases 1 to 818)
								NIH-MGC http://mgc.nci.nih.gov/.
								National Institutes of Health, Mammalian Gene Collection (MGC)
								Unpublished (1999)
								Contact: Robert Strausberg, Ph.D. Email: cgbpls@mail.nih.gov
								Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
								CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki Toshiyuki and Piero Carninci (RIKEN)
								CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
								DNA Sequencing by: Incyte Genomics Inc.
								Clone distribution: MGC Clone distribution information can be found through the I.M.A.G.E. Consortium at:
								http://Image.llnl.gov
								Plate: LLAM1076 row: n column: 03
								High quality sequence stop: 798.
								Location/qualifiers
								1..818
								/organism="Homo sapiens"
								/mol_type="mRNA"
								/db_xref="taxon:9606"
								/clone="IMAGE:4828610"
								/lab_host="DH10B"
								/clone_libs="NIH_MGC_97"
								/note="Organ: testis; Vector: pBluescriptR (modified pBluescript KS+); Site: 1; BamHI; Site 2: SalI-XbaI (gtcgag); Oligo-dT primed using primer 5'-TTTTTTTTTTTTVN-3'; size-selected for average insert size 2.2 kb and normalized to R05. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein

**Copyright** Gencore version 5.1.7  
**(c) 1993 - 2006 Biocceleration Ltd.**

**DM nucleic - nucleic search, using sw model**  
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 (without alignments)  
 3612.096 Million cell1 updates/sec  
**little:** US-10-500-173-3  
**Prefect Score:** 333  
**Sequence:** 1 gaaacaaatgacacaatcagc . . . . . taagacaaggtagggtaggg 333  

**Scoring table:** IDENTITY\_NUC  
**GAPONT:** 10.0 , Gapext 1.0  
**Searched:** 1303057 seqs, 888780828 residues  
**Total number of hits satisfying chosen parameters:** 2606114

卷之三

GIVEN WORDS

```

Maximum Match 100%
Listing first 45 summaries

Database : *Issued_Patents_NA:*
  1: /cgn2_6_ptodata/1/ina/1_COMB.seq:*
  2: /cgn2_6_ptodata/1/ina/5_COMB.seq:*
  3: /cgn2_6_ptodata/1/ina/5_COMB.seq:*
  4: /cgn2_6_ptodata/1/ina/6B_COMB.seq:*
  5: /cgn2_6_ptodata/1/ina/H_COMB.seq:*
  6: /cgn2_6_ptodata/1/ina/TCRS_COMB.seq:*
  7: /cgn2_6_ptodata/1/ina/BP_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Score	Query Match	Length	DB ID	Description	
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1	331.4	99.5	15585	3	US-09-949-016-11927	
2	331.4	99.5	15585	3	US-09-949-016-15627	
3	141.8	42.6	1501	3	US-09-949-016-3885	
4	141.8	42.6	1504	3	US-09-949-016-115	
5	45	13.5	33753	3	US-09-949-016-1741	
6	45	13.5	33756	3	US-09-949-016-12006	
7	44.4	13.3	15273	3	US-09-949-016-12356	
8	44.4	13.3	15273	3	US-09-949-016-13341	
9	43.6	13.1	120	3	US-09-313-394A-4341	
10	41.2	12.4	283	3	US-09-513-99C-13631	
11	41.2	12.4	2122	3	US-09-949-016-614	
12	41.2	12.4	2122	3	US-09-949-016-1539	
13	40.6	12.2	1589	3	US-09-949-016-3999	
14	40.6	12.2	1607	3	US-09-949-016-264	
15	36.8	11.1	8186	3	US-10-029-517-19	
c	c	36.2	10.9	23187	3	US-09-499-522-1
c	c	34.6	10.4	601	3	US-09-949-016-169734
c	c	34.6	10.4	3510	9	5386025-5
c	c	34.6	10.4	5962	9	5386025-5
c	c	34.6	10.4	5975	2	US-08-404-354B-1
c	c	34.6	10.4	5975	2	US-08-314-083B-1
c	c	34.6	10.4	5975	2	US-08-435-075B-1
c	c	34.6	10.4	5975	3	US-08-336-557A-3
c	c	34.6	10.4	5975	3	US-08-884-599-1
c	c	34.6	10.4	5975	3	US-08-884-599-1

RESULT 1  
US-09-949-016-11927  
Sequence 11927, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: [REDACTED]  
CURRENT FILING DATE: [REDACTED] 4  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 11927  
LENGTH: 15555  
TYPE: DNA  
ORGANISM: Human  
FEATURE: NAME/KEY: misc\_feature  
LOCATION: (1)...(15555)  
OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-11927



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OM nucleic - nucleic search, using sw model

Run on: April 9, 2006, 02:36:12 ; Search time 614.527 Seconds  
 (without alignments)  
 2167.823 Million cell updates/sec

Title: US-10-500-173-3

Perfect score: 333

Sequence: 1 gaaacaatgacacaatcgc.....tagacaaggtaggggg 333

Scoring table: IDENTITY\_NUC  
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Searched: 9267905 seqs, 2000278028 residues

Total number of hits satisfying chosen parameters: 18535810

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications NA\_New:  
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 2: /SIDSS5/podata/1/pubpna/US06\_NEW\_PUB.seq;  
 3: /SIDSS5/podata/1/pubpna/US07\_NEW\_PUB.seq;  
 4: /SIDSS5/podata/1/pubpna/PCT\_NEW\_PUB.seq;  
 5: /SIDSS5/podata/1/pubpna/US05\_NEW\_PUB.seq;  
 6: /SIDSS5/podata/1/pubpna/US09\_NEW\_PUB.seq;  
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 13: /SIDSS5/podata/1/pubpna/US11\_NEW\_PUB.seq3;  
 14: /SIDSS5/podata/1/pubpna/US11\_NEW\_PUB.seq4;  
 15: /SIDSS5/podata/1/pubpna/US06\_NEW\_PUB.seq;

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**ALIGNMENTS**

RESULT 1  
 US-10-000-688-1504  
 ; Sequence 1504, Application US/11000688  
 ; Publication No. US20050277544A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BERTUCCI, Francois  
 ; APPLICANT: HOULGATE, Remi  
 ; APPLICANT: BIRNBAUM, Daniel  
 ; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS  
 ; FILE REFERENCE: 1423-R-03  
 ; CURRENT APPLICATION NUMBER: US/11/000,688  
 ; CURRENT FILING DATE: 2004-12-01  
 ; PRIOR APPLICATION NUMBER: US 60/525,987  
 ; NUMBER OF SEQ ID NOS: 1596  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 1504  
 ; LENGTH: 1605  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; PENTURE:  
 ; OTHER INFORMATION: Description of Artificial sequences:primer

FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1..(1605)  
 ; OTHER INFORMATION: calponin 1, basic, smooth muscle(CNN1) gene.  
 US-11-000-688-1504

Query Match Score 68.4%; Score 227.8; DB 14; Length 1605;  
 Best Local Similarity 99.1%; Pred. No. 1.6e-49;  
 Matches 229; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Query Match Score 68.4%; Score 227.8; DB 14; Length 1605;  
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 Matches 229; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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 Db 6 GCGAGGCCCTTACAGCCATTGAACTGGCCCTTCGGAGCTT 65

Qy 157 CAAAAATGTGAGGGGGAGAGTGTGAGACGGACTTCGGCTCTGCCTCTGCTCACT 216

Db 66 CAAAAATGTGAGGGGGAGAGTGTGAGACGGACTTCGGCTCTGCCTCTGCTCACT 125

Qy 217 AGCTGCTAGTGCCACTGGCCACTGGCCACGGCCACGGCCAGATGCTCTGCTCACT 276

**SUMMARIES**

Result No.	Score	Query	Match	Length	DB ID	Description
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2	141.8	42.6	1504	11	US-11-245-147-194	Sequence 194, APP
3	66.2	19.9	1498	14	US-11-156-527-3031	Sequence 3031, AP
4	44.6	13.4	2271	14	US-11-156-527-2536	Sequence 2536, AP
5	44.4	13.3	168516	14	US-11-121-086-3	Sequence 3, Appli
C 6	40.6	12.2	736	8	US-10-750-623-61962	Sequence 61962, A
C 7	40.6	12.2	1607	14	US-11-000-688-1008	Sequence 1008, Ap
9	40.2	12.1	1400	14	US-11-156-527-7127	Sequence 7127, Ap
C 10	36.8	11.1	1084	9	US-10-517-696-82	Sequence 82, Appl
C 11	36.8	11.1	1582	11	US-11-030-857-464	Sequence 464, APP
C 12	36.8	11.1	1582	11	US-11-030-806-59	Sequence 59, APP
C 13	36.2	10.9	23187	11	US-11-226-198-1	Sequence 1, Appli
C 14	35.8	10.8	627	10	US-10-301-480-239363	Sequence 239363,
C 15	35.8	10.8	627	10	US-10-301-480-772	Sequence 822772,
C 16	35.8	10.8	635	6	US-09-925-0658-144853	Sequence 144853,
C 17	35.8	10.8	780	10	US-10-301-480-542693	Sequence 542693,
C 18	35.8	10.8	780	10	US-10-301-480-1156102	Sequence 1156102,